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NOTICE OF ALLOWANCE AND FEE(S) DUE

50890

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10/16/2008

CAVEN & AGHEVLI c/o INTELLEVATE, LLC P.O. BOX 52050 MINNEAPOLIS, MN 55402 EXAMINER ZHU, BO HUI ALVIN

PAPER NUMBER

ART UNIT

2419 DATE MAILED: 10/16/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,356	11/11/2003	Niklas Linkewitsch	P16194	6827

TITLE OF INVENTION: TECHNIQUES TO MAP AND DE-MAP SIGNALS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/16/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance onerwise in Block 1, by (orders and notification of r a) specifying a new corres	naintenance fees v pondence address	vill be ; and/o	mailed to the current r (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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CAVEN & AC c/o INTELLEVA P.O. BOX 52050	ATE, LLC 0	I he Stat addı tran	reby certify that thes Postal Service v	is Fee(s) Transmittal is being	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.	
MINNEAPOLIS	S, MN 55402						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/706,356	11/11/2003	•	Niklas Linkewitsch		•	P16194	6827
TITLE OF INVENTION	: TECHNIQUES TO M.	AP AND DE-MAP SIGN	NALS				
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	01/16/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
ZHU, BO H	IUI ALVIN	2419	370-506000				
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assignee	THE PATENT (print or type data will appear on the put a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment.			ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent): \Box	Individual 🖵 C	orporat	ion or other private gro	up entity 🚨 Government
4a. The following fee(s) Issue Fee	are submitted:	b. Payment of Fee(s): (Plea A check is enclosed.	se first reapply a	ny prev	viously paid issue fee s	hown above)	
Publication Fee (No small entity discount permitted) Advance Order - # of Copies			Payment by credit card. Form PTO-2038 is attached.				
			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	`	· · · · · · · · · · · · · · · · · · ·	_				
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interest as shown by the	records of the United Sta	ites Patent and Trademark	conflice.	пе аррисант; а гед.	istered	attorney of agent; of the	e assignee of other party in
Authorized Signature				Date			
Typed or printed name				Registration No.			
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10/706,356	11/11/2003	Niklas Linkewitsch	P16194	6827	
50890 75	90 10/16/2008		EXAMINER		
CAVEN & AGHEVLI c/o INTELLEVATE, LLC			ZHU, BO HUI ALVIN		
			ART UNIT	PAPER NUMBER	
P.O. BOX 52050 MINNEAPOLIS, N	MN 55402		2419 DATE MAILED: 10/16/200	8	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 878 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 878 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/706,356	LINKEWITSCH ET AL.					
Notice of Allowability	Examiner	Art Unit	_				
	 Bo hui a. Zhu	2419					
The MAILING DATE of this communication apperation apperation apperation apperation apperation and the communication apperation of the communication and the communication and the communication are responsive to a second and the co	ears on the cover sheet with (OR REMAINS) CLOSED in the or other appropriate communitients. This application is substand MPEP 1308. Int. filed on 09/12/2008. Ind. d 53-57. Inder 35 U.S.C. § 119(a)-(d) or a been received. In the been received in Application I	the correspondence address is application. If not included cation will be mailed in due course. THIS iject to withdrawal from issue at the initiative (f).	•				
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements					
INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposition of the property of the p	 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sum Paper No./Ma 7.	mal Patent Application mary (PTO-413), ail Date nendment/Comment atement of Reasons for Allowance					

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative Ramin Aghevli on October 10, 2008.

The application has been amended as follows:

1. Claims 14 -30, 35 – 47 and 49 have been canceled. The remaining claims are 1 - 6, 8 – 10, 13, 31 – 34, 48, 50, 51 and 53 - 57.

2. Claim 1 has been amended as shown below:

An apparatus to provide data based in part on a justification command, the apparatus comprising:

processor logic to selectively provide a justification command and data from an input signal;

a clock source to provide a first clock signal, wherein the clock source selectively modifies a phase of the first clock signal in response to the justification command; and

an elastic store device to selectively transfer the data based in part on the first clock signal, wherein the clock source comprises first, second, and third

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clock sources to respectively provide the first, a second, and a third clock signals; a transform device to modify the phase of the first clock signal in response to the justification command, to update a phase account to account for a phase impact of the justification command, and to update the phase account according to an amount of clock signal phase shift adjustment; and a phase comparator to modify the phase of the second clock signal based on a phase comparison of the first and third clock signals, wherein the processor logic is to selectively provide the justification command in response to a relative value of the phase comparison and a threshold value, wherein the clock source is to selectively maintain a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.

3. Claim 31 has been amended as shown below:

A method to provide data based in part on a justification command comprising:

selectively extracting a justification command and data from an input signal;

selectively modifying a phase of a first clock signal in response to the justification command, wherein the justification command is provided based on a phase comparison between second and third clock signals and in response to a relative value of the phase comparison and a threshold value;

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selectively transferring the data based in part on the first clock signal; selectively modifying the phase of the second clock signal in response to the justification command;

selectively combining the justification command with the data based on the first clock signal;

updating a phase account to account for a phase impact of the justification command; and

selectively maintaining a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.

3. Claim 32 has been amended as shown below:

The method of Claim 31, wherein the modifying comprises selectively adding a cycle to the first clock signal in response to a negative justification command and the number of accounted for bits a phase account value being low enough to allow a phase adaptation.

4. Claim 33 has been amended as shown below:

The method of Claim 31, wherein the modifying comprises selectively removing a cycle from the first clock signal in response to a positive justification command and the number of accounted for bits a phase account value being enough to allow a phase adaptation.

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5. Claim 48 has been amended as shown below:

A system to provide a justification command comprising:

an interface:

an elastic store device communicatively coupled with the interface and to selectively transfer data in response to a first clock signal;

a clock source to provide the first clock signal;

a justification source to selectively provide a justification command based on a phase comparison between second and third clock signals, wherein the justification source is to selectively provide the justification command in response to a relative value of the phase comparison and a threshold value;

a transform device to selectively modify the phase of the second clock signal in response to the justification command; and

a wrapper device to selectively combine the justification command with the data based on the first clock signal and to provide the combination; and

a data processor communicatively coupled with the interface and the wrapper device, wherein the interface comprises an XAUI interface, wherein the clock source is to selectively maintain a ratio of the first clock signal to the third clock signal as approximately one in response to the justification command.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to BO HUI A. ZHU whose telephone number is (571)270-1086. The examiner can normally be reached on Mon-Thur 10am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (571)272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BO HUI A ZHU/ Examiner, Art Unit 2419 October 13, 2008

> /Hassan Kizou/ Supervisory Patent Examiner, Art Unit 2419